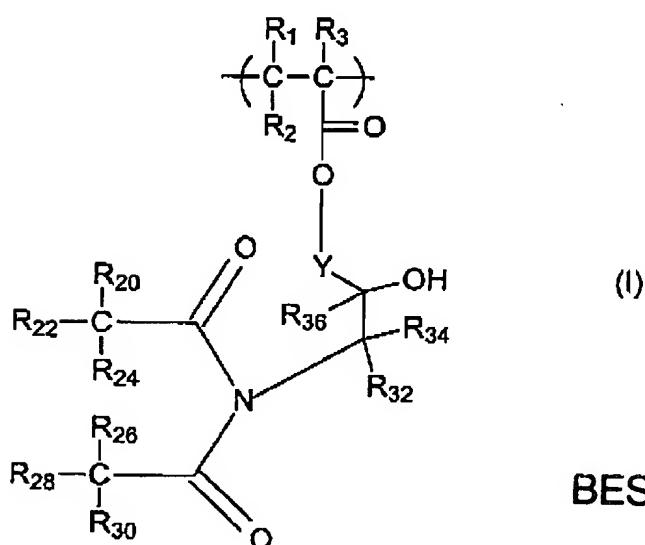


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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (amended) A polymer comprising at least one repeating unit represented by formula (I)



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where R₁, R₂, and R₃ are each independently selected from hydrogen or alkyl; R₂₀, R₂₂, R₂₄, R₂₆, R₂₈, and R₃₀ are independently selected from hydrogen, alkyl, aryl, aralkyl, or 5-, 6-, or 7-membered heterocyclic ring containing at least one heteroatom selected from nitrogen, oxygen or sulfur, or R₂₄ and R₂₆ taken together form $(CH_2)_{n1}(O)_{n2}(CH_2)_{n3}$ where n₂ is 0 or 1 and n₁+n₂+n₃ = 1 to 5; R₃₂, R₃₄, and R₃₆ are independently selected from hydrogen, alkyl, aryl, aralkyl, or 5-, 6-, or 7-membered heterocyclic ring containing at least one heteroatom selected from nitrogen, oxygen or sulfur; and Y is selected from linear or branched alkylene, monocyclic or polycyclic alkylene, arylene, aralkylene, polyoxyalkylene, linear or branched alkenylene, monocyclic or polycyclic alkenylene, aromatic or non-aromatic heterocyclic diradical and alicyclic diradical groups, the alkyl,

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aryl, aralkyl, heterocyclic ring, carbocyclic ring, linear or branched alkylene, monocyclic or polycyclic alkylene, arylene, aralkylene, polyoxyalkylene, linear or branched alkenylene, monocyclic or polycyclic alkenylene, aromatic or non-aromatic heterocyclic diradical and alicyclic diradical being unsubstituted or substituted.

2. (original) The polymer of claim 1 which further comprises an additional monomer.
3. (original) The polymer of claim 2 wherein the additional monomer is selected from optionally substituted acrylic esters, optionally substituted acrylic acids, optionally substituted methacrylic esters, optionally substituted methacrylic acids, optionally substituted acrylamides, optionally substituted methacrylamides, optionally substituted allyl compounds, optionally substituted styrenes, optionally substituted hydroxystyrene, optionally substituted hydroxyisopropylstyrene, optionally substituted methylstyrene, optionally substituted hydroxymethylstyrene, optionally substituted hydroxyl- α -methylstyrene, optionally substituted vinyl ethers, optionally substituted vinyl esters, optionally substituted crotonic acids, optionally substituted crotonic acid esters, optionally substituted maleic anhydride, optionally substituted dialkyl itaconates, optionally substituted monoalkyl or dialkyl esters of maleic acid or fumaric acid, and mixtures thereof.
4. (original) The polymer of claim 3 wherein the additional monomer is selected from optionally substituted methacrylic esters and optionally substituted styrenes.
5. (original) The polymer of claim 4 wherein the methacrylic esters contains a pendent hydroxyl group.
6. (canceled)

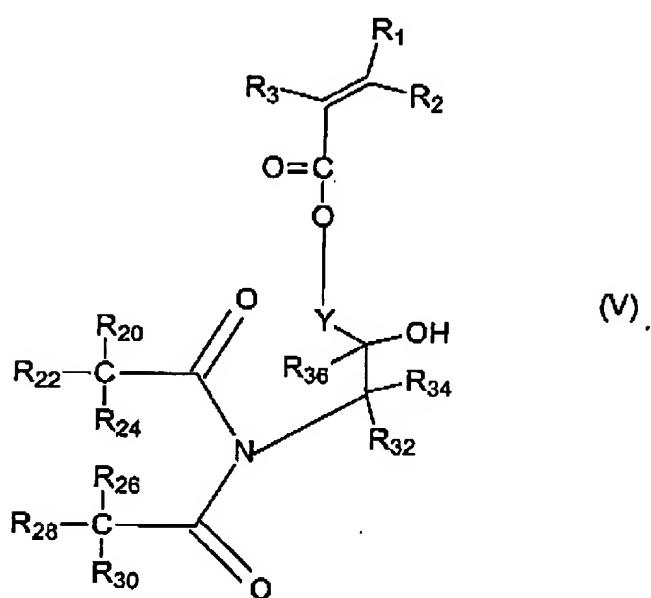
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7. (previously presented) The polymer of claim 1 wherein Y is linear or branched alkylene.

8. (previously presented) The polymer of claim 7 wherein each of R₃₂, R₃₄, and R₃₆ are independently hydrogen.

Claims 9 to 12 canceled.

13. (amended) A compound having the formula



where R₁, R₂, and R₃ are each independently selected from hydrogen or alkyl; R₂₀, R₂₂, R₂₄, R₂₆, R₂₈, and R₃₀ are independently selected from hydrogen, alkyl, aryl, aralkyl, or 5-, 6-, or 7-membered heterocyclic ring containing at least one heteroatom selected from nitrogen, oxygen or sulfur, or R₂₄ and R₂₆ taken together form $-\text{(\text{CH}_2)}_{n1}(\text{O})_{n2}(\text{CH}_2)_{n3}-$ where n₂ is 0 or 1 and n₁+n₂+n₃ = 1 to 5, or with the carbon atoms to which they are attached form a carbocyclic ring and R₂₀, R₂₂, R₂₈ and R₃₀ are as defined above; R₃₂, R₃₄,

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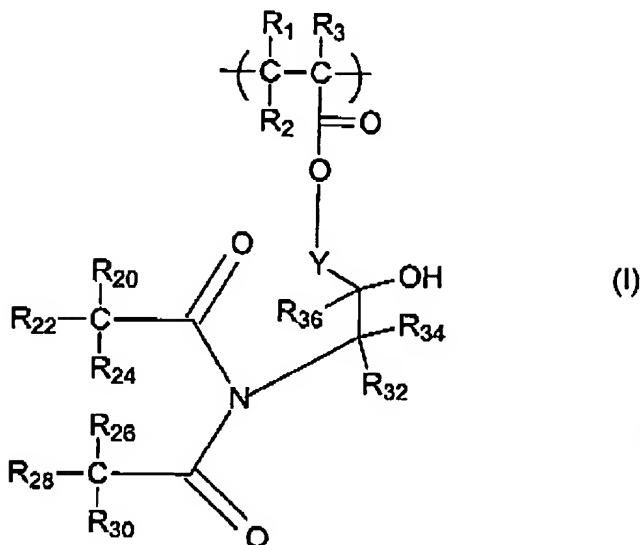
and R_{36} are independently selected from hydrogen, alkyl, aryl, aralkyl, or 5-, 6-, or 7-membered heterocyclic ring containing at least one heteroatom selected from nitrogen, oxygen or sulfur; and Y is selected from linear or branched alkylene, monocyclic or polycyclic alkylene, arylene, aralkylene, polyoxyalkylene, linear or branched alkenylene, monocyclic or polycyclic alkenylene, aromatic or non-aromatic heterocyclic diradical and alicyclic diradical groups, the alkyl, aryl, aralkyl, heterocyclic ring, ~~carbocyclic ring~~, linear or branched alkylene, monocyclic or polycyclic alkylene, arylene, aralkylene, polyoxyalkylene, linear or branched alkenylene, monocyclic or polycyclic alkenylene, aromatic or non-aromatic heterocyclic diradical and alicyclic diradical being unsubstituted or substituted.

14. (original) The compound of claim 13 wherein Y is linear or branched alkylene.
15. (original) The compound of claim 13 wherein each of R_{32} , R_{34} , and R_{36} are independently hydrogen.

Claims 16 to 18 canceled.

19. (amended) An antireflective coating composition comprising:
 - a) a polymer comprising at least one repeating unit represented by formula (I)

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where R_1 , R_2 , and R_3 are each independently selected from hydrogen or alkyl; R_{20} , R_{22} , R_{24} , R_{26} , R_{28} , and R_{30} are independently selected from hydrogen, alkyl, aryl, aralkyl, or 5-, 6-, or 7-membered heterocyclic ring containing at least one heteroatom selected from nitrogen, oxygen or sulfur, or R_{24} and R_{26} taken together form $-\text{CH}_2\text{-(O)-}_n\text{CH}_2-$ where n is 0 or 1 and $n+1+n_2+n_3 = 1$ to 5, or (iii) with the carbon atoms to which they are attached form a carbocyclic ring and R_{20} , R_{22} , R_{26} and R_{30} are as defined above; R_{32} , R_{34} , and R_{36} are independently selected from hydrogen, alkyl, aryl, aralkyl, or 5-, 6-, or 7-membered heterocyclic ring containing at least one heteroatom selected from nitrogen, oxygen or sulfur; and Y is selected from linear or branched alkylene, monocyclic or polycyclic alkylene, arylene, aralkylene, polyoxyalkylene, linear or branched alkenylene, monocyclic or polycyclic alkenylene, aromatic or non-aromatic heterocyclic diradical and alicyclic diradical groups, the alkyl, aryl, aralkyl, heterocyclic ring, carbocyclic ring, linear or branched alkylene, monocyclic or polycyclic alkylene, arylene, aralkylene, polyoxyalkylene, linear or branched alkenylene, monocyclic or polycyclic alkenylene, aromatic or non-aromatic heterocyclic diradical and alicyclic diradical being unsubstituted or substituted; and

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b) at least one crosslinking agent.

20. (original) The composition of claim 19 wherein for a), the polymer further comprises an additional monomer.

21. (original) The composition of claim 20 wherein the additional monomer is selected from optionally substituted acrylic esters, optionally substituted acrylic acids, optionally substituted methacrylic esters, optionally substituted methacrylic acids, optionally substituted acrylamides, optionally substituted methacrylamides, optionally substituted allyl compounds, optionally substituted styrenes, optionally substituted hydroxystyrene, optionally substituted hydroxyisopropylstyrene, optionally substituted methylstyrene, optionally substituted hydroxymethylstyrene, optionally substituted hydroxyl- α -methylstyrene, optionally substituted vinyl ethers, optionally substituted vinyl esters, optionally substituted crotonic acids, optionally substituted crotonic acid esters, optionally substituted maleic anhydride, optionally substituted dialkyl itaconates, optionally substituted monoalkyl or dialkyl esters of maleic acid or fumaric acid, and mixtures thereof.

22. (original) The composition of claim 20 wherein the additional monomer is selected from optionally substituted methacrylates and optionally substituted styrenes.

23. (original) The composition of claim 22 wherein the methacrylic esters contains a pendent hydroxyl group.

24. (canceled)

25. (previously presented) The composition of claim 19 wherein for a), Y is linear or branched alkylene.

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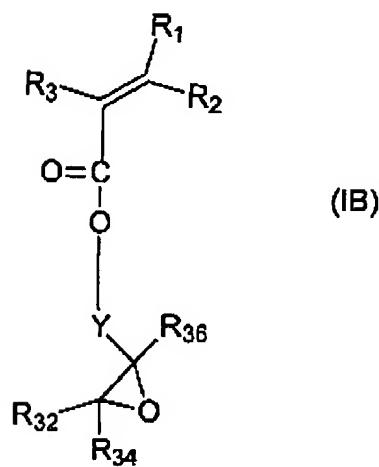
26. (previously presented) The composition of claim 19 wherein for a), each of R_{32} , R_{34} , and R_{36} are independently hydrogen.

Claims 27 to 30 canceled.

31. (original) The composition of claim 19 wherein b) the crosslinking agent is selected from aminoplasts, isocyanates and mixtures thereof.

32. (original) The composition of claim 19 which further comprises at least one additional component selected from solvents, cross-linking catalysts, monomeric dyes, surface leveling agents, adhesion promoters, and antifoaming agents.

33. (amended) A method of making the compound of claim 13 comprising reacting a compound of formula (IB)

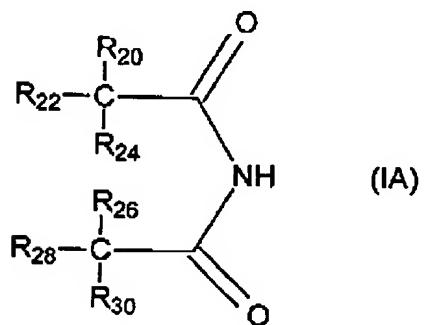


where R_1 , R_2 , and R_3 are each independently selected from hydrogen or alkyl; R_{32} , R_{34} , and R_{36} are independently selected from hydrogen, alkyl, aryl, aralkyl, or 5-, 6-, or 7-membered heterocyclic ring containing at least one heteroatom selected from nitrogen,

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oxygen or sulfur; and Y is selected from linear or branched alkylene, monocyclic or polycyclic alkylene, arylene, aralkylene, polyoxyalkylene, linear or branched alkenylene, monocyclic or polycyclic alkenylene, aromatic or non-aromatic heterocyclic diradical and alicyclic diradical groups, the alkyl, aryl, aralkyl, heterocyclic ring, carbocyclic ring, linear or branched alkylene, monocyclic or polycyclic alkylene, arylene, aralkylene, polyoxyalkylene, linear or branched alkenylene, monocyclic or polycyclic alkenylene, aromatic or non-aromatic heterocyclic diradical and alicyclic diradical being unsubstituted or substituted,

with a compound of formula (IA)



where R₂₀, R₂₂, R₂₄, R₂₆, R₂₈, and R₃₀ are independently selected from hydrogen, alkyl, aryl, aralkyl, or 5-, 6-, or 7-membered heterocyclic ring containing at least one heteroatom selected from nitrogen, oxygen or sulfur, or R₂₄ and R₂₆ taken together (i) form a direct bond, (ii) form $(CH_2)_{n_1}(O)_{n_2}(CH_2)_{n_3}$ where n₂ is 0 or 1 and n₁+n₂+n₃ = 1 to 5, or (iii) with the carbon atoms to which they are attached form a carbocyclic ring and R₂₀, R₂₂, R₂₈ and R₃₀ are as defined above, the alkyl, aryl, aralkyl, and heterocyclic ring, and carbocyclic ring being unsubstituted or substituted,

in the presence of a catalyst and separating the compound of claim 13 from the reaction mixture.

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34. (original) The method of claim 33 wherein Y is linear or branched alkylene.
35. (original) The method of claim 33 wherein each of R₃₂, R₃₄, and R₃₆ are independently hydrogen.

Claims 36 to 51 (canceled)